=> d ibib ab hitstr 1-4

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2000:909685 CAPLUS
DOCUMENT NUMBER: 134:56837
TITLE: Methods for the production of long-chain substituted estratriene and their application in the preparation of nedicaments
INVENTOR(5): Sauer, Gerhard: Bohlmann, Rolf; Heinrich, Nikolaus, Kroll, Jorg; Zorn, Ludwigs Fritzmeier, Karl-Heinrich; Hegele-Hartung, Christa; Hoffmann, Jens; Lichtner, Rosemarie Schering A.-G., Germany Ger. Offen., 16 pp. CODEN: GWXXEX PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: Patent FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE 20001228 20010104 20010510 DE 19929715 A1 A2 A3 DE 1999-19929715 19990624 WO 2000-EP5969 20000626 WO 2001000652 WO 2001000652 WO ZUDIJUUDSSZ AZ ZODIO104 WO ZUDO-EP5969 ZODOO626

W1 AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DIK, DM, EE, ES, FI, GB, GD, GE, GH, GM, ER, HU, ID, IL, LI, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MY, MK, NO, NZ, PI, PT, RO, RU, SD, SE, SG, SI, SS, SI, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW1 GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, PI, FR, GB, GR, LE, IT, LU, MC, NL, PT, SE, BF, BJ, CT, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 2000061524 AS 20010311 AU 2000-61524 20000626

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, NL, SE, MC, PT, JP 2003503419 T2 20030128 DP 2001-507059 20000626

NO 2001006330 A 20020131 DE 1999-19929715 A 19990624

WO 2000-F5965 W 20000626 IE, SI, LT, LV, FI, RO

JP 2003503419 T2 20030128 JP 2001-507059 20000626

NO 2001006330 A 20020131 NO 2001-507059 20000626

NO 2001006330 A 20020131 NO 2001-507059 20000626

HER SOURCE(S): MARPAT 134:56837

This invention describes the synthesis of new antiesterogenic 11.beta. long-chain substituted estratriens [I; R3 = H, alkyl, R3'C(0); R3' = H, alkyl, ph; R1 = ABZR20; A = bond, phenylene, phenyleneoxy; B = alkylene, alkynylene, alkynylene; alkynylene; Alkynylene; Alkynylene, alkynylene, alkynylene; Alkynylene, alkynylene, alkynylene; B = R20; R21 = alkyl; R20 = H, alkyl, alkenyl, -alkynylene; B = Alkylene, alkynylene; B = 72.7; R20 = DD(CH2)q-aryl; q = 0 - 3; aryl = Ph, 1-naphthyl, 2-naphthyl, heteroaryl; DO(CH2)Cnf2rnl; r = 1 - 5; R20R21 with N = C5-C6-heterocycle; R20R2) with N = heterocycle etc.; R17 = H, R17'C(0); R17' = H, alkyl) for the product of sedicaments. Thus, I (R3, R17 = H; R11 = FSC2(EN)235(CR2)37M(M2)(CR215) was prepd. from epoxyestrene (II) via reaction with 1-bromo-5-tert-butyldimethylsilyloxypentane, aromatization, chlorination and amination with methyl(3-1(4,4,5,5,5,5-pentafluoropentyl)sulfanyl)propyl)amine. Formulations of I (no data) are claimed. OTHER SOURCE(S): ΙT ANSVER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN study, unclassified); SPN (Synthetic preparation); I SIOL (Biological study); PREP (Preparation); USES (U (prepn. of long-chain substituted erfrattene and the prepn. of medicaments) 310019-26-6 CAPLUS Estra-1, 3, 5 (10) - triene-3, 17-diol, 11-(5-[methyl{3-(CAINDEX NAME)]); (11. bd (CAINDEX NAME) hyl{3-[(4, , (11.beta Absolute stereochemistry. Rotation (CH2) 314019-27-7 CAPLUS Estra-1,3,5 10)-tri pentafluoropentyl)ti (CA INDEX NAME) ,4,5,5,5-11.beta.,17.beta.)- (9CI) [O]propyl]a Absolute stereoc (CH2) 3 (CH<sub>2</sub>) 3 (CH2 314019-29-9 CAPLUS Estra-1, 3, 5(10) -triene/3, 17-diol, 11-[5-[(3-[(2-pyridinylaethyl) sulfiyy])propyl]amino]pentyl]-, (11.beta., 17.beta.)- (9CI) (CA INDEX NAME) Absolute stereochemist

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) Study, unclassified); RCT (Reactant); SFN (Synthetic preparation); TRU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (prepn. of long-chain substituted estratriene and their application in the prepn. of nedicaments)
314019-28-8 CAPLUS
Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl[3-[(2-pyridiny]]]]); Pyridiny]nethyl[hio]propyl[amino]pentyl]-, [11.beta-,17.beta-) (9CI) (CA INDEX NAME) Absolute stereochemistry. Rotation (+). (CH2) 3 93,17-diol, 11-{5-[methyl[3-{{{4-yl]methyl]thio]propyl)amino]pentyl]-, (9CI) (CA INDEX NAME) (trid Rotation (+). Absolute try. (CH2) 3 314019-26-6P 314019-27-7P 314019-29-9P 314019-31-3P 314019-58-4P 314019-59-5P 314019-60-8P 314019-61-9P 314019-62-8P 314019-61-8P 314019-66-4P 314019-68-6P 314019-68-6P 314019-67-5P 314019-78-8P 314019-78-8P 314019-78-8P 314019-78-6P 314019-78-8P 314019-79-9P 314019-77-P 314019-78-8P 314019-79-7P 314019-81-3P 314019-79-7P 314019-81-3P 314019-81-8P 314019 RL: BAC (Biological activity or effector, except adverse); BSU (Biological ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN 314019-31-3 CAPLUS Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl[3-[{[4-(trifluoromethyl]phenyl]methyl]sulfinyl]propyl]amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME) 314019-58-4 CAPLUS Estra-1,3,5(10)-triene-3,17-diol, 11-{5-{methyl(8,8,9,9,9-pentafluorononyl)amino}pentyl}-, (ll.beta.,17.beta.)- (9CI) (CA INDEX NAME) Absolute stereochemistry. (CH2) 7 314019-59-5 -CAPLUS Estra-1,3,5(10)-triene-3,17-diol, 11-[5-(methylnonylamino)pentyl]-, (11.beta.,17.beta.)- (9C1) (CA INDEX NAME)

(GH2) 8 (GH2) 5 S H S S

Absolute stereochemistry.

RN 314019-60-8 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl(9,9,10,10,10-pentefluorodecyl)amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) NAME)

Absolute stereochemistry.

RN 314019-61-9 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[6-{methyl(8,8,9,9,9-pentafluorononyl)amino]hexyl}-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-62-0 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-(6-[methyl(9,9,10,10,10-pentafluorodecyl)amino]hexyl)-; (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-63-1 CAPLUS CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-(methylamino)pentyl]-,

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) ,11,11-heptadecafluoroundecyl)methylamino]pentyl]-, (11/beta.,17.beta.)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-68-6 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5/[methyl(3,3,4,4,5,5,6,6,6-nonafluorohexyl]amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

RN 314019-69-7 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-{5-{methyl(7,7,8,8,8-pentafluorooctyl)amino|pentyl}-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

RN 314019-70-0 CAPLUS
CN Estra-1.3,5(10) triene-3,17-diol, 11-(6-[methyl(7,7,8,8,8-pentafluorooctyl/amino]hexyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

L8 ANSVER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-65-3 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl(4,4,5,5,5-pentafluoropentyl)amino]pentyl, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-66-4 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-(methyl(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl)amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-67-5 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-{(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11

L8 ANSVER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) Absolute stereochemistry.

RN 314019-71-1 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl(7,7,8,8,9,9,10,10,10-nonafluorodecyl)amino]pentyl}-, (11.beta-,17.beta-)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-72-2 CAPLUS

Stra-1,3,5(10)-triene-3,17-diol, 11-{5-{methyl(7,7,8,8,9,9,10,10,11,11,12,12,12-tridecafluorododecyl)amino]pentyl}-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-73-3 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[(7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-heptadecafluorotetradecyl)esthylamino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued

RN 314019-74-4 CAPLUS
CN Estra-1,35(10)-triene-3,17-diol, 11-[5-[(3,4,4,5,5,5-hexafluoro-2-pentenyl]nethylaminojpentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 314019-75-5 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[(3,4,4,5,5,6,6,7,7,8,8,8dodecafluoro-2-octenyl)methylamino]pentyl]-, (11.beta.,17.beta.)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 314019-76-6 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[(3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-readecafluoro-2-decenyl)methylamino|pentyl]-, [11.beta.,17.beta.](9CI) (CA INDEX NAME)

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-80-2 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-(methyl(2-(4-methyl)ethyl)ethyl]amino]pentyl]-, (11.bets.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-81-3 CAPLUS
CN Estra-1, 3, 5(10) -triene-3, 17-diol, 11-[5-[(2-(4-ethoxyphenyl)ethyl]methylamino]pentyl)-, (11.beta., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-82-4 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-dio1, 11-[5-[methyl(3-phenylprogyl)amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

Double band geometry unknown.

F3C (CF2) 6 He CH2) 5 H S S H S S H

RN 314019-77-7 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl(3-phenoxypropyl)amino]pentyl]-, (11-beta.,17.beta.)- (9CI) (CA INDEX NAME)

RN 314019 78-8 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-{5-[methyl{3-(ppenylmethoxy)propyl]amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA , JADEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

RN 314019-79-9 CAPLUS
CN Estra-1,3,5[10]-triene-3,17-diol, 11-[5-[methyl[3-{(4,4,5,5,5-pentafluoropentyl)oxy]propyljaminojpentyl]-, (11.beta.,17.beta.)- (9C1)

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued Absolute stereochemistry.

RN 314019-83-5 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-{nethyl[3-(3-pyridinyl)propyl]amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry

RN 314019-84-6 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl]3-(4-methylphenyl)propyl}amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 314019-85-7 CAPLUS
CN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[(3-(4-chlorophenyl)propyl]methylamino]pentyl}-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

314019-86-8 CAPLUS Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[[3-(4-ethoxyphenyl)propyl]methylamino]pentyl)-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

314019-87-9 CAPLUS Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl(4-methylpentyl)amino]pentyl}-, (11.beta.,17.beta.)- (9CI (CA INDEX NAME)

Absolute stereochemistry.

314019-88-0 CAPLUS Estra-1,3,5(10)-trieng-3,17-diol, 11-[5-[methyl(3,4,4,5,5,6,6,6-octafluoro-2-hexenyl]amino]penyyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L8 MISVER 2 OF 4
ACCESSION NUMBER:
DOCUMENT NUMBER:
1171LE:
11

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. DATE KIND DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

FR 2774989 Al 19990820 FR 1998-1959 19980218
FR 2774989 Bl 20000317 FR 1998-1959 19980218
PRIORITY APPLN. INFO:
OTHER SOUNCE(S): MARPAT 131:170644
AB Estradiol peptides E-D-A wherein A represents estradiol I (R1, R2 = independently H, alkyl, alkenyl, arylcarbonyl, arylalkylcarbonyl, R3 = H, bond), D represents acyl, ester, anido, aninoalkylidene, peptide: E represents peptide, dolastatin-15 II (R4 = amidoalkoxy, arylalkylideneamino) were prepd. as antitumor and cytotoxic agents. Thus, peptide III was prepd. and tested in vitro for its antitumor and cytotoxic activities (ECS) = 6.58-1.2 mM).

IT 23917-54-5P 239117-55-6P 239117-56-7P
RL: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified), SFN (Synthetic preparation), THU (Therapeutic use), BIOL (Biological study), PREF (Preparation), USES (Uses)
(prepn. of estradiol peptides as antitumor and cytotoxic agents)
RN 239117-54-5 CAPLUS
CN L-Proline, N, M-dimethyl-L-valyl-L-valyl-N-methyl-L-valyl-L-prolyl-, (15)-1-[(125)-2-[(4-[(4-[(2-((11.beta., 17.beta.)-3, 17-dihydroxyestra-1,3,5-dihydro-3-methoxy-5-oxo-IH-pyrcol-1-yl]carbonyl]-2-methylpropyl setm (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

314019-89-1 CAPLUS Estra-1, 3-5(10) -triene-3,17-diol, 11-[5-{{2-(4-bromophenoxy)ethyl]methylamino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX-NAME)

314019-90-4 CAPLUS Estra-1,3,5[10]-triene-3,17-diol, 11-[5-{methyl[2-[4-(trifluoromethyl)phenoxy]ethyl]amino]pentyl]-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

PAGE 1-B

239117-55-6 CAPLUS
L-Proline, N,N-dimethyl-L-valyl-L-valyl-N-methyl-L-valyl-L-prolyl-,
(1S)-1-[(2S)-2-[(4-[(4-[(4-[(11.beta.,17.beta.)-3,17-dihydroxyestra1,3,5(10)-trien-11-yl]butyl|amino|-4-oxobutoxy|methylphosphinyl]oxy]phenyl
methyl]-2,5-dihydro-3-methoxy-5-oxo-IR-pyrrol-1-yl]carbonyl]-2methylpropyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

239117-56-7 CAPLUS
L-Proline, N,N-dimethyl-L-valyl-L-valyl-N-methyl-L-valyl-L-prolyl-,
[15]-1-{[25]-2-[4-[6-{[2-{(11.beta.,17.beta.)-3,17-dihydroxyestra1,3,5(10)-trien-11-yl]ethyl]amino]-1,6-dioxohexyl]oxylphenyl]methyl]-2,5dihydro-3-methoxy-5-oxo-1H-pyrrol-1-yl]carbonyl]-2-methylpropyl ester
(9C1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1997:435821 CAPLUS

DOCUMENT NUMBER: 127:76140

127:76140

Steroidal Affinity Labels of the Estrogen Receptor. 3.

Estradiol 11.beta-n-Alkyl Derivatives Bearing a

Terminal Electrophilic Group: Antiestrogenic and
Cytotoxic Properties

AUTHOR(S): Lobaccaro, Carole: Pons, Jean-Francois: Duchesne,
Marie-Josephe, Aucou, Gilles: Pons, Michel: Nique,
Francois: Teutsch, Georges: Borgna, Jean-Louis

INSERN Unite 439, Montpellier, 34090, Fr.

Journal of Medicinal Chemistry (1997), 40(14),
2217-2227

CODEN: JMCMAR; ISSN: 0022-2623

American Chemical Society

DOCUMENT TYPE: Journal

CORPORATE SOURCE: INSERM Unite 439, Montpellier, 34090, Fr. SOURCE: Journal of Medicinal Chemistry (1997), 40(14), 2217-2227
CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB With the aim of developing a new series of steroidal affinity labels of the estrogen receptor, six electrophilic Il.beta.-Et (C2), 11.beta.-Bu (C4), or Il.beta.-decyl (C10) derivs. of estradiol bearing
11.beta.-terainal electrophilic functionalities, i.e. bromine (C4), (methylsulfonyl)oxy (C2 and C4), bromoacetamido (C2 and C4), and (p-tolylsulfonyl)oxy (C3 and C4), bromoacetamido (C2 and C4), and (p-tolylsulfonyl)oxy (C10) were synthesized. The range of their affinity consts. for binding the estrogen receptor was 0.4-378 that of estradioly the order of increasing affinity (1) relative to the 11.beta.-alkyl arm was Et < Bu and (ii) relative to the electrophilic functionalities was bromoacetamido < bromine < (methylsulfonyl)oxy. Regardless of the conditions used, including prolonged exposure of the receptor to various pil levels (7-9) and temps. (0-25.degres.), the extent of receptor affinity labeling by the 11.beta.-Et and 11.beta.-Bu compds., if any, was under 10%. This was in sharp contrast to results obtained using 11.beta.-(100) et al. 2000 et

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

PAGE 1-B

L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued) study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of estradiol 11.beta.-n-alkyl derivs. as steroidal affinity labels of the estrogen receptor)

191486-88-1 CAPUS
Acetanide, 2-bromon-N-[2-[(11.beta.,17.beta.)-3,17-dihydroxyestra-1,3,5(10)-trien-11-yl]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

191487-03-3 CAPLUS Acetamide, 2-bromo-N-[4-[(11.beta.,17.beta.)-3,17-dihydroxyestra-1,3,5(10)-trien-11-yi|butyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

191485-87-OP 191487-02-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or resgent) [Frepn. of estradiol 11.beta.-n-alkyl derivs. as steroidal affinity labels of the estrogen receptor) 191486-87-O CAPLUS Acatanide, N-[2-[(11.beta.,17.beta.)-3,17-bis[[(1,1-disethylethyl]dinethylsily]]oxy]estra-1,3,5(10)-trien-11-yl]ethyl]-2-bromo-[9CI] (CA INDEX NAME)

ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

191487-02-2 CAPLUS Acctamide, N-[4-[(1).beta.,17.beta.]-3,17-bis{[(1,1-dimethylethyl)dimethylsilyl]oxy]estra-1,3,5(10)-trien-11-yl}butyi}-2-bromo-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
134411-65-7P 134411-66-8P
RL: SPN (Synthetic preparation); TRU (Therapeutic use); BIOL (Biological
study); PREP (Preparation); USES (Uses)
(prepn. of, as draw)
(prepn. of, as draw)
134411-65-7 CAPLUS
Estra-1,3,5(10)-triene-11-pentanamide, N-butyl-3,17-dihydroxy-,
(11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

134411-66-8 CAPLUS Estra-1,3,5(10)-triene-11-pentanamide, N-butyl-3,17-dihydroxy-N-methyl-, (11.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L8 ANSWER 4 OF 4
ACCESSION NUMBER:
DOCUMENT NUMBER:
11991:656464 CAPLUS
11112:
1112:
115:256464 CAPLUS

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE	
				-
EP 384842	A1	19900829	EP 1990-400493 1990022	2
EP 384842	B1	19931229		
			FR, GB, GR, IT, LI, LU, NL	
FR 2643638	A1	19900831	FR 1989-2384 1989022	4
FR 2643638	B1	19910614		
HU 55032	A2	19910429	HU 1990-273 1990012	5
HU 207341	В	19930329		
ZA 9001356	Ā	19910424	ZA 1990-1356 1990022	2
AT 99320	E	19940115	AT 1990-400493 1990022	2
ES 2062431	73	19941216	ES 1990-400493 1990022	2
			CA 1990-2010826 1990022	
AII 9050072	A1	19900830	AU 1990-50072 1990022	1
AU 631853				
70 031633	32	10001101	JP 1990-41383 1990022	
JP 3009169				
US 5149696	Δ.	19920922	US 1990-484424 1990022	
PL 162151	BI	19930930	PL 1990-283941 1990022 CN 1990-101580 1990022	
CN 1046166	Ā	19901017	CN 1990-101580 1990022	4
			US 1992-875460 1992042	9
US 5707982	A	19980113	US 1993-68735 1993052	
US 5707982 PRIORITY APPLN. INFO	. :		FR 1989-2384 A 1989022	
			EP 1990-400493 A 1990022	
			US 1990-484424 A3 1990022	
			FR 1990-10323 A 1990081	4

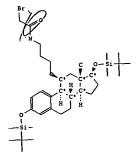
US 1990-484424 A3 19900223
FR 1990-10323 A 19900814
US 1991-745289 B1 19910814
US 1991-745289 B1 19910814
US 1991-745289 B1 19910814
BT The title compds. [Ir R, R1 = H, (substituted) alkylr or NRR1 =
(substituted) heterocyclylr R2 = OR, acyloxyr R3 = H, (substituted) alkylr or RRR1 =
(substituted) heterocyclylr R2 = OR, acyloxyr R3 = H, (substituted) alkylr, alkynylr or RRR3 = O, X = CR2, acylene, CR20, aryleneoxy linked
to the steroid moiety by Cr Y = bond, (substituted) aliph. chainr Z =
bond, CR20 linked to Y by Cr rings A and B may be (2-substituted) Q Q1,
R4 = H, alkyll, having affinities for receptors of hormones, e.g.,
estrogen, androgen, propesterone, and therefore useful as inhibitors of
hormone-dependent tumors and many other ailments, were prepd.
Estradienone II (R5 = OH] (prepd. in several steps from apoxyestrenedione
III and p-He3CSIHe2O(CR128CHHS) was amidated with HNMeBu to give II (R5
= NNBBU), which was enol-esterified with AcBr and the product hydrolyzed
to give I (R = Me, R1 = Bu, X = CGR14, Y = (CR127, Z = bond, R2 = OH, rings
A and B = Q1, R3 = R4 = H]. This had an ICSO of 0.04 mu.M against the

=> d all 1-4

#### ANSWER 1 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN

TRI 2003 BELISTEIN CDS MDL on STN

7842637
N-(4-(3, 17-bis-(tert-butyl-dimethylsilanyloxy)-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-GKcyclopenta<aphenanthren-11-yl>-butyl>-2bromo-acetamide
N-(4-(3, 17-bis-(tert-butyl-dimethylsilanyloxy)-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-GKcyclopenta<aphenanthren-11-yl>-butyl>-2bromo-acetamide
CJ6 M62 Br N OJ Si2
692.97
15224, 3798, 3777, 1155
Stereo compound
isocyclic
6729739
7453813
6-13
1998/04/30
1998/05/04 Beilstein Records (BRN): Chemical Name (CN): Autonom Name (AUN): Molec. Formula (MF):
Molecular Weight (MW):
Lawson Number (LM):
File Segment (FS):
Compound Type (CTYPE):
Constitution ID (CONSID):
Tautomer ID (TAUTID):
Beilstein Citation (BSO):
Entry Date (DED):
Update Date (DUPD):



#### Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1

ANSWER 1 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN

Reactant BRN (.RBRN): Reactant (.RCT):

7842637
N-C4-C3,17-bis-(tert-butyl-dimethyl-silanyloxy)-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopentaca>phenanthren-11-yl>-butyl>-2-bromo-acetamide
7833530

Product (.PRO): 7833530
2-bromo-N-<4-{3,17-dihydroxy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-GH-cyclopenta<a>phenanthren-11-yl)-butyl>-acetanide

No. of React. Details (.NVAR): 1

# Reaction Details:

Reaction RID (.RID): 4804487.1
Reaction Classification (.CL): Preparation
Reagent (.RGT): aq. ACCH
Solvent (.SGL): tetrahydrofuran
Time (.TIM): 20 hour(s)
Other Conditions (.COND): Acbient temperature
Note(s) (.COM): Yield given
Reference(s): 1. Lobaccaro, Carole; Pons, Jean-Francois; Duchesne, Marie-Josephe; Auzou,
Gilles; Pons, Michel; et al., J.Med.Chem., CODEN: JMCMAR, 40(14),
<1997>, 2217-2227; BABS-6075367

ANSWER 1 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN

Chemical Name

L9 ANSVER
(Continued)
CN
AUN
MF
FV
LN
FS
CTYPE
CONSID
TAUTID
BSO
ED
UPD Chemical Name
Autonomname
Molecular Formula
Formular Veight
Lawson Number
File Segment
Compound Type
Constitution ID
Tautomer ID
Beilstein Citation
Entry Date
Update Date

This substance also occurs in Reaction Documents:

Code Occurrence Reaction Documents Substance is Reaction Reactant Substance is Reaction Product

Reaction: RX

Reaction ID (.ID): Reactant BRN (.RBRN): Reactant (.RCT):

Product BRN (.PBRN): Product (.PRO):

4781161
7838449, 506167
4-3,17-bis-(tert-butyl-dimethylsilanyloxy)-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-6Hcyclopenta-4s-phenanthren-11-yl>butylamine, bromoacetic acid
7842637
78-43,17-bis-(tert-butyl-dimethylsilanyloxy)-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-6Hcyclopenta<a>phenanthren-11-yl>-butyl>-2bromo-acetamide

No. of React. Details (.NVAR):

# Reaction Details:

Reaction RID (.RID): 4781161.1
Reaction Classification (.CL): Preparation
Reagent (.NCT): 1-ethyl-3-<3-(dimethylamino)propyl>carbodi inide hydrochloride, pyridine tetrahydrofuran
Time (.TIM): 30 min 40 Cel Solvent (.SOL): Time (.TIM): Temperature (.T): Reference(s):

Reference(a):

1. Lobaccaro, Carole: Pons, Jean-Francois: Duchesne, Marie-Josephe: Auzou, Gilles: Pons, Michel: et al., J.Med.Chem., CODEN: JMCMAR, 40(14), <1997>, 2217-2227: BABS-6075367

## Reaction:

Reaction ID (.ID): 4804487

ANSWER 2 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN

Beilstein Records (BRN): Chemical Name (CN):

TR 2003 BELISTEIN CDS MDL on STN

7840634
N-<2-<3,17-bis-(tert-butyl-dimethylmilanyloxy)-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-6Hcyclopenta-a>phenanthren-11-yl>-ethyl>-2bromo-acetamide
N-<2-<3,17-bis-(tert-butyl-dimethylmilanyloxy)-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-6Hcyclopenta-a>phenanthren-11-yl>-ethyl>-2bromo-acetamide
C34 H58 Br N O3 Si2
664.91
15230, 3798, 3777, 1155
Stereo compound
isocyclic
6727235
7451996
6-13
1998/04/30
1998/05/04

Autonom Name (AUN):

Molec. Formula (MF):
Molecular Weight (MW):
Lawson Number (LN):
File Segment (FS):
Compound Type (CTYPE):
Constitution ID (CONSID):
Tautomer ID (TAUTID):
Beilstein Citation (BSO):
Entry Date (DED):
Update Date (DUPD):

### Field Availability:

Code	Name	Occurrence
*****		**********
BRN	Beilstein Records	1
CN CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
fV	Formular Weight	1

10/018,429 Page 10

This substance also occurs in Reaction Documents: RX RXREA RXPRO Reaction Documents Substance is Reaction Reactant Substance is Reaction Product Reaction:

Reaction ID (.ID): Reactant BRN (.RBRN): Reactant (.RCT):

Product BRN (.PBRN): Product (.PRO):

4781159
7836551, 506167
2-43,17-bis-(tert-butyl-dimethyl-silanylony)-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-GH-cyclopenta<a>phenanthren-11-yl>-ethylamine, bromoacetic acid
7840634
N-<2-<3,17-bis-(tert-butyl-dimethyl-silanylony)-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-GH-cyclopenta<a>phenanthren-11-yl>-ethyl>-2-bromo-acetamide

No. of React. Details (.NVAR):

Reaction Details:

Reaction RID (.RID): 4781159.1
Reaction Classification (.CL): Preparation
Reagent (.RCT): 1-ethyl-3-<3-(dimethylamino) propyl>carbodi inide hydrochloride, pyridine tatrahydrofuran Time (.TIM): 30 min 40 Cel
Reference(a.t.): 4781159.1
Preparature (.T): 4781159.1
Preparation (.T): 47

Solvent (.SOL): inide hydrochlotide, pyrioline tetrahydrofuran
Time (.TIM): 30 min 40 Cel
Reference(s): 40 Cel
Reference(s): 1. Lobaccaro, Carole: Pons, Jean-Francois: Duchesne, Marie-Josephe: Auzou, Gilles: Pons, Michel: et al., J.Med.Chem., CODEN: JMCMAR, 40(14), <1997>, 2217-2227: BABS-6075367

Reaction: RX

Reaction ID (.ID): Reactant BRN (.RBRN): Reactant (.RCT):

4803841 7840634 N-<2-<3,17-bis-(tert-butyl-dimethylsilanyloxy)-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-

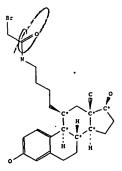
L9 ANSWER 3 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN

Beilstein Records (BRN): Chemical Name (CN):

7833530

Autonom Name (AUN):

7833530
2-bromo-N-<4-(3,17-dihydroxy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-GH-cyclopenta(a)phenanthren-11-yl)-butyl>-actamide
2-bromo-N-<4-(3,17-dihydroxy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-GH-cyclopenta(a)phenanthren-11-yl)-butyl>-actamide
C24 H34 Br N O3
464.44
15224, 1155
Stereo compound
isocyclic
6717041
7450857
6-13 Molec. Formula (MF):
Molecular Weight (MW):
Lawson Number (LN):
File Segment (FS):
Compound Type (CTYPE):
Constitution ID (CONSID):
Tautomer ID (TAUTED):
Beilstein Citation (BSO):
Evident (DED):
Update Date (DED): 1998/04/30



### Field Availability:

Code	Name	Occurrenc
BRN	Beilstein Records	1
CN	Chemical Name	ī
AUN	Autonomname	ī
KF	Molecular Formula	1
FV	Formular Veight	1
LN	Lavson Number	ž
FS	File Segment	1

L9 ANSWER 2 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN (Continued)

Product BRN (.PBRN): Product (.PRO):

cyclopenta<a>phenanthren-11-yl>-ethyl>-2-bromo-acetamide 7829440

7829440
2-bromo-N-<2-(3,17-dihydroxy-13-methyl7,8,9,11,12,13,14,15,16,17-decahydro-GHcyclopenta(a>phenanthren-11-yl)-ethyl>acetamide
1

No. of React. Details (.NVAR):

Reaction RID (.RID): 4803841.1
Reaction Classification (.CL): Preparation aq. AcOH
Solvent (.SOL): tetrahydrofuran
Time (.TIN): 20 hour(s)
Other Conditions (.COND): Ambient temperature
Note(s) (.COM): Yield given
Reference(s): Yield given
1. Lobaccaro, Carole; Pons, Jean-Francois; Duchesne, Marie-Josephe; Auzou, Gilles; Pons, Michel; et al., J.Med.Chem., CODEN: JMCMAR, 40(14), <1997>, 2217-2227; BABS-6075367

```
ANSWER 3 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN
L9 ANSWER
(Continued)
CTYPE
CONSID
TAUTID
BSO
                                      Compound Type
Constitution ID
Tautomer ID
Beilstein Citation
Entry Date
Update Date
Infrared Spectrum
Melting Point
Nuclear Magnetic Resonance
Pharmacological Data
```

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

```
Melting Point:
Value | Solvent
(MP) | (.SOL)
(Cel) |
```

Reference(s):
1. Lobaccaro, Carole: Pons, Jean-Francois: Duchesne, Marie-Josephe: Auzou, Gilles: Pons, Michel: et al., J.Med.Chem., CODEN: JNCMAR, 40(14), <1997>, 2217-2227: BABS-6075367

Notes(s):

Nuclear Magnetic Resonance: NMR

Description (.KV): Chemical shifts
Nucleus (.NUC): 1H
Solvents (.SOL): disethylsulfoxide-d6
Temperature (.T): 32 Cel
Reference(s):
1. Lobaccaro, Caroles Pons, Jean-Francoiss Duchesne, Marie-Josephes Auzou,
Gilless Pons, Michels et al., J.Hed.Chem., CODEN: JNCMAR, 40(14),
<1997>, 2217-2227, BABS-6075367

Description (.KW): Spin-spin coupling constants
Solvents (.SOL): dimethylsulfoxide-d6
Temperature (.T): 32 Cel
Note(s) (.COM): HH-1H.
Reference(s): 11-1H.
Lubaccaro, Caroles Pons, Jean-Francois; Duchesne, Marie-Josephes Auzou,
Gilless Pons, Nichelr et al., J.Med.Chen., CODEN: JMCMAR, 40(14),
<1997>, 2217-2227; BABS-6075367

Infrared Spectrum:

```
L9 ANSWER 3 OF 4 BEILSTEIN COPY
(Continued)
Descript | Solvent | Ref. | Note
             ANSWER 3 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN
   ion
(.KV)
                         (,SOL)
                     1 KBr
Reference(s):
1. Lobaccaro, Carole: Pons, Jean-Francois: Duchesne, Marie-Josephe: Auzou, Gilles: Pons, Michel: et al., J.Med.Chem., CODEN: JMCMAR, 40(14), <1997>, 2217-2227: BABS-6075367
Notes(s):
1. 3535 - 1675 cm**(-1)
Pharmacological Data:
                                                                                           binding affinity to the estrogen receptor, estrogen antagonist activity, IC50: 320 nM (MVIA cell line); antiproliferative activity (ability to premote DNA accumulation from MVIA)
             Note(s) (.COM):
            Reference(s):

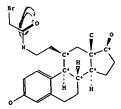
1. Lobaccaro, Carole: Pons, Jean-Francois: Duchesne, Marie-Josephe: Auzou, Gilles: Pons, Michel: et al., J.Med.Chem., CODEN: JMCMAR, 40(14), <1997>, 2217-2227; BABS-6075367
                                                                                            4804487
7842637
N-(4-(3,17-bis-(tert-butyl-dimethyl-silanyloxy)-13-methyl-
7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta(a>phenanthren-11-yl>-butyl>-2-bromo-acetamide
7833530
2-bromo-N-(4-(3,17-dihydroxy-13-methyl-
            Reaction ID (.ID):
Reactant BRN (.RBRN):
Reactant (.RCT):
                                                                                         7833530
2-bromo-N-<4-(3,17-dihydroxy-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-GH-cyclopenta<a>phenanthren-11-y1)-butyl>-acetanide
1
            Product BRN (.PBRN):
Product (.PRO):
            No. of React. Details (.NVAR):
Reaction Details:
           Reaction RID (.RID): 4804487.1
Reaction Classification (.CL): Preparation ag. AcoH
Reagent (.RGT): qq. AcoH
Solvent (.SOL): tetrahydrofuran
Time (.TIM): 20 hour(s)
Other Conditions (.COND): Ambient temperat
Note(s) (.COM): Yield given
Reference(s): Loberton Caroles Porty Learners Durch
                                                                                           Ambient temperature
Yield given
            Relegance (3):

1. Lobaccaro, Carole: Pons, Jean-Francois: Duchesne, Marie-Josephe: Auzou,
Gilles: Pons, Michel: et al., J.Med.Chem., CODEN: JMCMAR, 40(14),
```

L9 ANSWER 4 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN

Beilstein Records (BRN): Chemical Name (CN): Autonom Name (AUN): Molec. Formula (MF):
Molecular Weight (MW):
Lawson Number (LM):
File Segment (FS):
Compound Type (CTYPE):
Constitution ID (CONSID):
Tautomer ID (TAUTIO):
Beilstein Citation (BSO):
Entry Date (DED):
Update Date (DUPD):

7829440



Field Availability:

Code	Name	Occurrence
	**************	
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FV	Formular Veight	1
LN	Lavson Number	2
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	ī
IR	Infrared Spectrum	1

ANSWER 3 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN 

```
L9 ANSWER 4 OF 4 BEILSTEIN COPYRIGHT 2003 BEILSTEIN CDS MDL on STN (Continued)

MP Helting Point 1

NNR Nuclear Magnetic Resonance 2

PHARM Pharmacological Data 1
      This substance also occurs in Reaction Documents:
                                                                                                        Occurrence
           RX
RXPRO
                               Reaction Documents
Substance is Reaction Product
Melting Point:
Value | Solvent
(MP) | (.SOL)
(Cel) |
  170 - 172 |diethyl ether|1
Reference(s):

1. Lobaccaro, Carole: Pons, Jean-Francois: Duchesne, Harie-Josephe: Auzou, Gilles: Pons, Michel: et al., J.Med.Chem., CODEN: JMCMAR, 40(14), <1997>, 2217-2227: BABS-6075367
 Nuclear Magnetic Resonance:
NMR
         Description (.KW):
Nucleus (.NUC):
Solvents (.SOL):
                                                                              Chemical shifts
                                                                             1H
CDC13
32 Ce1
           Temperature (.T):
           Reference(s):
1. Lobaccaro, Carole: Pons, Jean-Francois: Duchesne, Marie-Josephe: Auzou, Gilles: Pons, Michel: et al., J.Med.Chem., CODEN: JMCMAR, 40(14), <1997>, 2217-2227: BABS-6075367
         Description (.XV): Spin-spin coupling constants
Solvents (.SOL): CDC13
Temperature (.T): 32 Cel
Note(s) (.COM): 1H-1H.
Reference(s):
1. Lobaccaro, Carole: Fons, Jean-Francois: Duchesne, Marie-Josepher Auzou,
Gilles: Pons, Michel: et al., J. Hed.Chem., CODEN: JMCMAR, 40(14),
<1997>, 2217-2227: BABS-6075367
Infrared Spectrum:
Descript | Solvent | Ref. | Note
  Bands
                  l KBr
Reference(s):

1. Lobaccaro, Caroler Pons, Jean-Francois: Duchesne, Marie-Josephe: Auzou, Gilles: Pons, Michel: et al., J.Med.Chem., CODEN: JMCMAR, 40(14), <1997>, 2217-2227; BABS-6075367
```

=> d ibib ab fqhit 1-7

INVENTOR(S):

DOCUMENT TYPE:

PATENT ASSIGNEE(S): SOURCE:

PATENT NO.

PRIORITY APPLN. INFO.:

MSTR 1

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

(Continued)

(Continued)

THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L11 ANSWER 1 OF 7 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 135:16357 MARPAT
ITILE: Steroid compounds for steroid receptor binding assays
INVENTOR(5): Schoonen, Vilhelmus G. E. J.
Akzo Nobel N.V., Neth.
SOURCE: PIXTE 1. Appl., 30 pp.
CODEN: PIXTE 2. CODEN: PIXTE 2. English
FAMILY ACC. NUM. COUNT: 1
        DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                       PATENT NO.
                                                                                                                                                 KIND DATE
                                                                                                                                                                                                                                                                                      APPLICATION NO. DATE
                                      WO 2001040805
VO 2001040805 Al 20010607 WO 2000-EP11803 20001124

V: US

RY: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NH, PT, SE, TR

EP 1232285 Al 20020911 EF 2000-999893 20001124

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR

PRIORITY APPIN. INFO.:

BP 1999-204036 199971330

WO 2000-EP11803 30001124

AB The invention provides a compd. having binding affinity for a receptor and comprising a steroid skeleton in its mol. structure A hich compd. is Bu-A-Y-X-Ste (Bu = sterically bulky structure or mol. moietr having high affinity for a sterically bulky mol. structure A = -NH., -O.—(CO)., -S-1 Y = branched or unbranched, satd. or ungadd. chain of 2 to 18 atoms of carbon, which chain is optionally interrupted by replacements of carbon atoms by oxygen, nitrogen or sulfur atoms/And is optionally substituted with keto, hydroxyl, sulfhydryl or haloden groups; X = C or arylene group linked to the steroid skeleton with a carbon or an oxygen atoms Stegroup with a steroidal skeleton having binding affinity for a steroid receptor; the bond between A and Y is optional double or triple bond; that between Y and X is optional double bond). The invention also provides for a method for detn. of binding between a compd. having a mol. group E in its mol. structure, in which method L is the group Ste as defined above and R is a steroid receptor. An estradiol estrogen receptor ligand labeled with allophycocyanin (steroid-APC) was prepd. and assayed for binding with the alpha-estrogen receptor by time-resolved fluorescence resonance energy transfer assays.
                                                                                                                                            A1 20010607
                                                                                                                                                                                                                                                                                      WO 2000-EP11803 20001124
      g1---G3---g9
                                                                Ak<EC (1-) C, BD (0-) D (0-) T> (50)
MH (50)
```

L11 ANSWER 2 OF 7 MARPAT COPYRIGHT 2003 ACS on STN
134:56837 MARPAT
TITLE: Methods for the production of long-chain substituted
estratriene and their application in the preparation
of medicaments

This area of the control of the cont

IE, SI, LT, LV, FI, RO

JP 2003503419 T2 20030128

NO 2001006330 A 20020131

NO 2001-607059 20000626

NO 2001006330 A 20020131

NO 2001-6330 20011221

DE 1999-19929715 19990624

WO 2000-EP5969 20000626

This invention describes the synthesis of new antiesterogenic 11. beta. long-chain substituted estratriene [I; R3 = H, alkyl, R3'C(0); R3' = H, alkyl, R1 = ARZRO: A\*-bond, phenylene, phenyleneoxy: B = alkylene, alkenylene, alkynylenes: 2' = NR21; R21 = alkyl: R20 = H, alkyl, alkenyl, -alkynyl, Ocfferi: D = aryl, alkylene, alkenylene, alkynylenes: n = 1 - B; R20 = LH-CTCPT2P+1; L\*- alkylene, alkenylene, alkynylenes: n = 1 - B; R20 = LH-CTCPT2P+1; L\*- alkylene, alkenylene, alkynylenes: n = 1 - B; R20 = LH-CTCPT2P+1; L\*- alkylene, alkenylene, alkynylenes: p = 2-7; R20 = DO(CH2) cGn\*Zn\*-1; r = 1 - 5; R20R21 with N = C5-C6-beterocycles: R20R21 with N = heterocycle atc.; R17 = H, R17\*C(0); R17' = H, alkyl] for the production of medicaments: Thus, I [R3, R17 = H; R11 = F5C2(CE2)35(CH2)31(M2)(CH2)5] was prepd. from epoxyestrene (I1) via reaction with 1-bromo-5-tert-butyldisethylaiyloxypentane, aromatization, chlotination and smination with methyl(3-[44,4,5,5,5,5-pentafluoropentyl]sulfanyl)propyl)smine.

A1 20001228 A2 20010104 A3 20010510

of medicaments
Sauer, Gerhards Bohlmann, Rolf; Heinrich, Nikolaus;
Kroll, Jorg Zorn, Ludwigs Fritzmeier, Karl-Heinrich;
Hegele-Hartung, Christas Hoffmann, Jens; Lichtner,
Schering A.-G., Germany
Ger. Offen, 16 pp.
CODEN: GWXXEX
Patent
German

APPLICATION NO. DATE
DE 1999-19929715 19990624
WO 2000-EP5969 20000626

```
L11 ANSWER 2 OF 7 MARPAT COPYRIGHT 2003 ACS on STN
          OH
alkylene<(4-6}>
alkylamino<(1-3)>
OH
           clain 1
```

LII ANSVER 1 OF 7 MARPAT COPYRIGHT 2003 ACS on STN

claim 1 or addition salts or solvates also incorporates claim 12

10/018,429 L11 ANSWER 3 OF 7 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 131:170644 MARPAT Preparation of estradiol peptides as antitumor and cytotoxic agents
INVENTOR(S): Jouln, Patrick; Poncet, Joel; Busquet, Magali; Atassi, Ghanes; Pierre, Alain
PATENT ASSIGNEE(S): Adir et Compagnie, Fr.
SOURCE: COUNT: FFC. Dennie, 59 pp.
COUNENT TYPE: Patent
LANGUAGE: Prench
PAMILY ACC. NUM. COUNT: 1 DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. A1 19990820 B1 20000317 APPLICATION NO. FR 2774989 Al 19990820 FR.1998-1959 19980218
FR 2774989 Bl 20000317 FR 1998-1959 19980218
FR 2774989 Bl 20000317 FR 1998-1959 19980218
AB Estradiol peptides E-D-A wherein A represents estradiol I (R1, R2 = independently H, alkyl, alkenyl, arylcarbonyl, arylalkylcarbonyl, R3 = H, bondl, D represents acyl, ester, amido, aminoalkylidene, peptide, E represents peptide, dolastatin-15 II (R4 = amidoalkoxy, arylalkylideneamino) were prepd. as antitumor and cytotoxic agents. Thus, peptide III was prepd. and tested in vitro for its antitumor and cytotoxic activities (EC50 = 6.58-1.2 nM). g12-g10-g1 ин 6811 and pharmaceutically acceptable acid or base addition salts claim 1 L11 ANSWER 4 OF 7 MARPAT COPYRIGHT 2003 ACS on STN
(ALL HITS ARE ITERATION INCOMPLETES)
ACCESSION NUMBER: 121:109397 MARPAT
TITLE: Peparation of ester derivatives of 4-azasteroids as steroid 5.alpha.-reductase inhibitors.

INVENTOR(S): Vitzl. Bruce E. Rasamusson, Gary H.; Tolman, Richard L.; Yang, Shu Shu
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: PCT Int. Appl., 66 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: Enclish FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE

WO 9323041 A1 19931125 WO 1993-US4771 19930519

W: AU, BB, BG, BR, CA, CZ, FI, HU, JP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, LW, US

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, NC, NL, PT, SE, BF, BJ, CF, CG, C1, CN, GA, CN, ML, MR, NE, SN, TD, TG

AU 9342525 A1 19931213 AU 1993-42525 19930519

AU 668181 B2 19960426 EP 1993-911362 19930519

EF 649306 A1 19950426 EP 1993-911362 19930519

EF 649306 B1 20010110 R: AT 1993-50838 19930519

AT 198601 E 20010115 AT 1993-50838 19930519

US 5610162 A 19970311 US 1994-338573 19941117

OURTY APPLN INFO: US 1992-886022 19920520

WO 1993-US54771 19930519

Title compds. [1] a, b = single bonds, R2 = H; or a = single bond, b = double bond, and R2 = null; R1 = H, aryl, akkyl, aralkyl, R3 = H, Me, Et, OH, NHZ, Ske, n = 0-10; X = O, S, R4 = (substituted) alkyl, aryl, heterocyclyl, cycloalkyl, anino, OH, etc.) were prepd. as inhibitors of 5.alpha-reductase and isoenzyowes thereof. The compds. are useful for the treatment of hyperandrogenic disease conditions and diseases of the skin and scalp (no data). Thus, 20-hydroxy-4-methyl-5.alpha-4-azapregnan-3-one, 11-ethylthioundecanoic acid, DNAP, and DCC were stirred in CH2Ci2 a reapregnan-3-one. PRIORITY APPLN. INFO.:

ITERATION INCOMPLETS

L11 ANSWER 3 OF 7 MARPAT COPYRIGHT 2003 ACS on STN STE: and isomers (Continued)

L11 ANSWER 4 OF 7 MARFAT COPYRIGHT 2003 ACS on STN
65 = NULL / G40 / alkylene<EC (1-10) C, DC (0) M3>
(50 (1-) G6)
66 = Ph / naphthyl / alkyl<(1-3)> (50 G28) / (5C Me)
67 = H / Me / Et / OH / NH2 / SMe
68 = 0 / 5 O / S
Ph (SO) / naphthyl (SO) /
Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, CH (-1) +,
RC (1), RS (1) MS (1) X75 (SO) / 204 / 206 /
Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ (6-) C,
AR (1-), BD (6-) N, CH (-1) +, RC (2),
RS (0-) E5 (1-) E6 (0-) E7 (0) OTHERQ (SO) /
Cycloalkyl<(3-10)> (SO) / 68 / OH / 71 2 --G12 <sub>7</sub>Q----G39 <sub>2</sub>G29=0 <sub>2</sub>G29=0 - OH / F / C1 / Br / I / alkoxy<(1-8)> / alkenyl<(2-6)> / 32 / SH / 65 / 63 / 48 / 52 / Ph (50) / naphthyl (50) / HyeEc (1-3) 0 (0-) N (0-) 0 (0-) S (0) OTHERO, CH (-1) +, RC (1), RS (1) HS (1) X7> (50) / 209 / 211 / HyeEc (1-3) 0 (0-) N (0-) 0 (0-) S (0) OTHERO (6-) C, AR (1-), BD (6-) N, CH (-1) +, RC (2), RS (0-) ES (1-) 32 (0)-G11 4816-G39 | G12 5C(0)G17-C(0)G18 63-OH 65-OH 2839=0 2<sup>6</sup>29=0 G11 - 36 / OH / 46 G12 -G12 48 G15 - H / slkyl<(1-8)> (SO (1-) G13) / Ph (SO) /
naphthyl (SO) / HyvEC (1-3) Q (0-) N (0-) O (0-) S (0)
OTHERD, CH (-1) +, RC (1), RS (1) M5 (1) X7> (SO) / 214 /
216 / HyvEC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ (6-) C,
AR (1-), BD (6-) N, CH (-1) +, RC (2),
RS (0-) E5 (1-) E6 (0-) E7 (0) OTHERO (SO)

LII ANSVER 4 OF 7 MARPAT COPYRIGHT 2003 ACS on STN

- OH / alkoxy<(1-3)> / CN / 39 / 43 / NO2 / F / Cl /
Br / I / NH2 / alkylamino<(1-4)> / dialkylamino<(1-4)> /
Ph (SO) / naphthyl (SO) / Hy<EC (1-3) Q (0-) N (0-) O (0-)
S (0) OTHERQ, CH (-1) +, RC (1), RS (1) M5 (1) X7> / 219 /
221 / Hy<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ (6-) C,
AR (1-), BD (6-) N, CH (-1) +, RC (2),
RS (0-) E5 (1-) E6 (0-) E7 (0) OTHER>

39(0)-G14 4938-C(0)-G14 239=0

-G15

- alkyl<(1-8)> (SO) / Ph (SO) / naphthyl (SO) - S / S(O) / SO2 - NH / 59

-G19 5**§** 

G18

딹

= alkyl<(1-8)> / CH2Ph / cyclohexyl = alkylcarbonyl<(1-20)> (SO (1-) G10) / 30

36 (0)-69

= 25 / (SC 26 / 174 / 178 / 193 / 202) / (EX 245 / 330)

L11 ANSWER 4 OF 7 MARPAT COPYRIGHT 2003 ACS on STN

H<sub>2C</sub> - CH<sub>2</sub> - CH<sub>2</sub>

G25 - Me / Bu-t / 184 / 187

HC-(-CH2)Me H2C-(-CH2)S-Pr-i

G26 = Bu-t / Me / 228

o-C6H4Et

= Bu-t / Pt-i / Me = Ph / naphthyl = By-EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, CH (-1) +, RC (1), RS (1) M5 (1) X7> (50) / Hy-EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ (6-) C, RS (0-) E5 (1-) E6 (0-) E7 (0) OTHER> (50) Hy-EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, CH (-1) +, RC (1), RS (1) M5 (1) X7> / Hy-EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ, CH (-1) +, RC (1), RS (1) M5 (1) X7> / Hy-EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ (6-) C, AR (1-), B0 (6-) N, CH (-1) +, RC (2), RS (0-) E5 (1-) E6 (0-) E7 (0) OTHER> - Me / Bu-t / 235

H2C-{-CH2}s--Pr-i

- 249 / 268 / 282 / 283 / 285 / 294 / 303 / 306 / 314 / 320 / 323 / CH-CHPh

P-C6H4G34 H2C- CH2 BE

L11 ANSWER 4 OF 7 MARPAT COPYRIGHT 2003 ACS on STN

0-C(0)-NH-CH2-Ph H2C-0-C(0)-NH-G26 H2C-0-C(0)-G32

- 76 / 224 / 234 / 239

0-C(0)-G23 0-C(0)-NH-G27 H2C-0-C(0)-G31

H2C-CH2-O-C (0)-NH-Bu-t

- 79 / 83 / 85 / dodecyl / 93 / Bu-t / 94 / 98 / CH2CH2CO2H / 106 / 110 / 126 / 134 / 143 / 144 / 147 / 150 / 154 / 158 / 169

H2C-CH215-Et H2C-OEt H2C-CH215-Pr-i H2C-CMe

H2C CH2CH=CH2 Me H2C CH2CH=C-Ne H2CC CH2C CO) ONe

OMe H2C-p-C6H4Pr-i H2C-S-Pr-i H2C-CH2JS-Pr-i

L11 ANSWER 4 OF 7 MARPAT COPYRIGHT 2003 ACS on STN

294 303 CF3 m-C6H4CN H

i-Pr-p-C6H4CHp-C6H4Pr-i H<sub>2</sub>C CH C1

= 2-furyl / 251 / cyclohexyl / 256 / OCOMe

G34 = Bu-i / OEt G35 = 333 / 358 / 373 / 378

 $^{12}_{333}^{C} - ^{O} - ^{C}(0)^{G36}$   $^{36}_{36}^{R} - ^{C}(0)^{-n} - ^{C}_{6}^{H_{4}} - ^{NH} - ^{COCH_{3}}_{36}^{3} - ^{C}(0)^{[CH_{2}]}_{16}^{H_{2}}$ 

- 337 / pentadecyl / 339 / 350 / 356

- NO2 / COPh
- alkylena<(1-8)>
- alkylenia(1-8)>
- alkyle(1-8)> (SO (1-) G13) / Ph (SO) /
- aphthyl (SO) / By<EC (1-3) Q (0-) N (0-) O (0-) S (0)
OTHERRO, CH (-1) +, RC (1), RS (1) MS (1) X7> (SO) / 34 / 50 /
By<EC (1-3) Q (0-) N (0-) O (0-) S (0) OTHERQ (6-) C,
AR (1-), BD (6-) N, CH (-1) +, RC (2),
RS (0-) E5 (1-) E6 (0-) E7 (0) OTHER> (SO)

L11 ANSWER 4 OF 7 MARPAT COPYRIGHT 2003 ACS on STN (Continued)

G40 = (1-10) CH2
G1 +G2 = NULL
G3 +G4 = NULL
DER: or pharmaceutically acceptable salts or ester
MPL: claim 1
NTE: up to one double bond in steroid moiety

```
ANSVER 5 OF 7 MARPAT COPYRIGHT 2003 ACS on STN (Continued)

- Ak<EC (1-6) C, BD (0-) D (0-) T>

- NH

- OH

and pharmaceutically acceptable salts
claim 1

substitution is restricted
```

```
L11 ANSWER 5 OF 7 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 120:134926 MARPAT
TITLE: Preparation of estrogen bisphosphonates for treatment of bone diseases
INVENTOR(S): Nakamura, Toshio; Katsumata, Takashi; Yamamoto, Hichihi Pro rna, Japan
SOURCE: Sumitomo Pharma, Japan
SOURCE: JODICAF
DOCUMENT TYPE: Patent
LANGUAGE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
    DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                             PATENT NO.
                                                                                                                  KIND DATE
                                                                                                                                                                                                                              APPLICATION NO. DATE
PATENT NO. KIND DATE APPLICATION NO. DATE

JP 05222073 A2 19930831 JP 1992-59642 19920213

PRIORITY APPLN. INFO:

JF 1992-59642 19920213

AB The title compds. [I: E = estrogen residue: R1 = bond, alkylene: R2 = alkylene, alkenylene, alkynylene: R3 = H, alkyl; R4 = OH, alkyl, alkoxy: Y1 = bond, O. S(O)n (wherein n = 0, 1, 2), R85 (wherein R5 = H, alkyl), CONR6 (wherein R6 = H, alkyl); 21 = bond, O, S, NH: 22 = H, alkyl), alkylthio, OH, NH:21, useful in treating such bone diseases as osteoporosis, are prepd. A soln. of 1.6H Buli/hexane was added to a soln. of estratriene II (THF = tetrahydro-2-pyranyl) in THF at O.degree. and stirred at room temp., to the soln. was added I (CH2) 3CMe[PO(OCIMe2) 2] 2, and the soln. was stirred at room temp. and then acidified to pH 1 to give 956 bisphosphonate III. I at 3 mg/kg s.c. per day in mice for 3 wk gave a bone salt concn. of 120.4 .+-. 3.96 mg/cm2, vs. 103.1 .+-. 2.25 mg/cm2 for controls.
                                                                                   3 A2 19930831
                             controls.
              MSTR 1A
  G1
                                      = 303
  G3
                                     = alkylene<(1-6)>
 L11 ANSVER 6 OF 7
ACCESSION NUMBER:
116:214774 MARPAT
119-Norsteroids having an amide-bearing chain in the
11-beta position, their preparation, their use as
medicines (especially antiestrogens), and
pharmaceutical compositions thereof
Claussner, Andrew Nique, Francois/ Teutsch, Jean
Georges/ Van de Velde, Patrick
ROUSSEL-UCLAF, Fr.
Eur. Pat. Appl., 63 pp.
CODEN: EPXXEW
PATENT INFORMATION:
French
FAMILY ACC. NUM. COUNT:
2
    DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                             PATENT NO.
                                                                                                                    KIND
                                                                                                                                                DATE
                                                                                                                                                                                                                                APPLICATION NO. DATE
                          PATENT NO.

EP 471612
EP 471612
EP 471612
F. AT,
FR 2665901
FR 2665901
FR 2665901
ES 2112269
ES 201269
                                                                                                                                              DATE APPLICATION NO. DATE

1992/0219 EP 1991-402214 19910809
1992/0513
1998/0128 FR 1990-10323 1998/0129
1998/0215 AT 1991-042214 19910809
1998/0215 AT 1991-402214 19910809
1998/0401 ES 1991-402214 19910809
1992/0215 CA 1991-2049102 19910813
1992/0215 JP 1991-226410 19910813
1992/0223 HU 1991-226410 19910813
1994/1213 JP 1991-226410 19910813
2000/0807
1993/1216 1991/1208 2A 1991-6420 19910814
                                                                                                           E1
CH, DE,
A2
B2
                                                                                                                       E
T3
AA
A2
A2
B2
A1
B2
    PRIORITY APPLN. INFO.:
```

AU 9182422 A1 19920220 AU 1991-82422 19910814
AU 644671 B2 19931216
ZA 9106420 A 19921028 ZA 1991-6420 19910814
US 5707982 A 19980113 US 1993-68755 19930528
RRITY APPLM. INFO::
FR 1990-10323 19900814
FR 1999-2184 19950224
US 1990-484424 19950223
TVenty title steroids I {either {1} n = 1, K = 0, R17 - CM, O2C(CH2)2CO2H
or salts; R17' = H, C.tplbond.CH; RA = Me; RB = iso-Pr, Bu,
heptafluorobutyl; N = CH2, CGH4, CGH4; Y = (CH2)7, (CH2)8,
(CH2)5C.tplbond.C, (CH2)qCM2 with q = 5-7, (CH2)5S(O)pCH2 with p = 0-2; Z
-bond; or {2} n = 1 or 2; K = 0, S; R17 - CM, acylory, R17' = H,
(Substituted) alkyl, alkenyl, or alkynyls or R17R17' = keto X - CH2,
stylene, CCH2, oxysylene, thiosylene (bound to steroid at C atom); Y aliph, chain optionally unsatd. or interrupted by arylene, O, S, SO, or
SO2; Z = bond; RA, RB = H, (substituted) alkyl, or RAR8 = atoms to form
(substituted) haterocycle; addnl. restrictions] were prepd. as
antiestrogens for treatment of hormone-dependent tumors. For example,
11.beta.-(4-hydroxyphenyl)estra-4,9-diene-J,17-dione was etherified with
BuMMCCCH2O(CH2)5Br (prepns. given), followed by isomerization to a
3-hydroxystra-1,3,5(10)-triene, redn. of the 17-oxo group to 17.beta.-OH
with NaBH4, protection of the CH2 groups as acetates, conversion of the
anide to a thioanide with Lawesson's reagent, and deprotection, to give
title compd. II. The ICSO of II for inhibiting growth of MCF-7 namary
tumor cells in vitro was 0.03 nM. A tablet formulation comprising I is
given.

MSTR 18

L11 ANSWER 6 OF 7 MARPAT COPYRIGHT 2003 ACS on STN

毁

 alkyl<(1-8)> (SO G14)
or salts
claim 1
substitution is restricted G13 DER: MPL: NTE:

L11 ANSWER 7 OF 7 MARPAT COPYRIGHT 2003 ACS on STN

- OH - 88-45 90-46

= OH = CH2 = alkylamino<(1-8)> (SO (1-) G39) claim 6 Ak<(1-18)> in G36 may be interrupted by an arylene group or an oxygen atom

L11 ANSWER 7 OF 7 MARPAT COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:
115:214857 MARPAT
115:214857 MARP

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4036425	A1	19910516	DE 1990-4036425	19901115
FR 2654337	A1	19910517	FR 1989-14976	19891115
FR 2654337	B1	19940805		
SE 9003570	Α	19910516	5E 1990-3570	19901109
BE 1005511	A4	19930831	BE 1990-1062	19901109
DK 9002709	A	19910516	DK 1990-2709	19901113
CA 2029940	AA	19910516	CA 1990-2029940	19901114
JP 03294229	A2	19911225	JP 1990-306374	19901114
CH 681691	Α	19930514	CH 1990-3611	19901114
NL 9002492	Α	19910603	NL 1990-2492	19901115
GB 2239798	A1	19910717	GB 1990-24862	19901115
GB 2239798	B2	19931027		
AT 9002313	À	19950415	AT 1990-2313	19901115
N. 400300		10051122		

AT 9002313 A 19950415 AT 1990-2313 19901115
AT 400298 B 1995127 FR 1989-14976 19891115
AB Biodegradable nicrospheres comprise the title steroids (Markush given) and copolymers of lactic acid with glycolic acid. A mixt. of 250 mL ag. 0.31 hydrolyzed PVA soln... 1 g poly(Dt-lactic acid-glycolic acid), 17 g CH2C12, and 0.5 g 17.beta.-hydroxy-11.beta.-(1-dimethylaminophenyl)-17.alpha.-(1-propynyl)estra-4,9-dien-3-one was emulsified, followed by stirring at 22.degree. and decreasing pressure (.gtoreq.400 mm Hg) to give microspheres, which were used for the prepn. of injections.

G1—G3

12841236-G3715(0)-G38

- 43

10/018,429 Page 19

=> d his

(FILE 'HOME' ENTERED AT 11:13:17 ON 03 SEP 2003)

FILE 'REGISTRY' ENTERED AT 11:13:54 ON 03 SEP 2003

L1 STRUCTURE UPLOADED

L2 1 S L1

L3 36 S L1 FULL

FILE 'CAPLUS' ENTERED AT 11:15:38 ON 03 SEP 2003

L4 2 S L3

FILE 'REGISTRY' ENTERED AT 11:18:15 ON 03 SEP 2003

L5 STRUCTURE UPLOADED

L6 1 S L5

L7 47 S L5 FULL

FILE 'CAPLUS' ENTERED AT 11:18:58 ON 03 SEP 2003

L8 4 S L7

FILE 'BEILSTEIN' ENTERED AT 11:21:49 ON 03 SEP 2003

L9 4 S L5 FULL

FILE 'MARPAT' ENTERED AT 11:24:19 ON 03 SEP 2003

L10 1 S L7

L11 7 S L7 FULĹ

=> d scan

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN 1-Pyrrolidinecarboxylic acid, 2-[[[4-(trifluoromethyl)phenyl]thio]methyl]-

, 1,1-dimethylethyl ester, (2S)- (9CI)

MF C17 H22 F3 N O2 S

Absolute stereochemistry.

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

MF C35 H48 F3 N O3 S

Absolute stereochemistry.

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Estra-1,3,5(10)-triene-3,17-diol, 11-[4-[2-[methyl[3-[(4,4,5,5,5-pentafluoropentyl)sulfinyl]propyl]amino]ethyl]phenyl]-,
 (11.beta.,17.beta.)- (9CI)

MF C35 H46 F5 N O3 S

$$F_3$$
C  $(CH_2)_3$   $(C$ 

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN 1-Propanamine, N-methyl-3-[[[4-(trifluoromethyl)phenyl]methyl]thio]- (9CI)

MF C12 H16 F3 N S

$$CH_2-S-(CH_2)_3-NHMe$$

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Benzenethiol, 4-(trifluoromethyl)- (9CI)

MF C7 H5 F3 S

CI COM

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Pyrrolidine, 2-[[[4-(trifluoromethyl)phenyl]thio]methyl]-, (2S)- (9CI)

MF C12 H14 F3 N S

09/972,411

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

MF C35 H48 F3 N O2 S

Absolute stereochemistry. Rotation (+).

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Estra-1,3,5(10)-triene-3,17-diol, 11-[4-[2-[methyl[3-[(4,4,5,5,5pentafluoropentyl)thio]propyl]amino]ethyl]phenyl]-, (11.beta.,17.beta.)(9CI)

MF C35 H46 F5 N O2 S

Absolute stereochemistry. Rotation (-).

$$F_3C$$
 $(CH_2)_3$ 
 $(C$ 

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN 1-Propanamine, 3-[(4,4,5,5,5-pentafluoropentyl)thio]- (9CI)

MF C8 H14 F5 N S

$$H_2N-(CH_2)_3-S-(CH_2)_3-CF_2-CF_3$$

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN 1-Pyrrolidinecarboxylic acid, 2-[[[4-(trifluoromethyl)phenyl]sulfinyl]meth
yl]-, 1,1-dimethylethyl ester, (2S)- (9CI)

MF C17 H22 F3 N O3 S

Absolute stereochemistry.

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN 1-Propanamine, N-methyl-3-[(4,4,5,5,5-pentafluoropentyl)thio]- (9CI)

MF C9 H16 F5 N S

 $MeNH-(CH_2)_3-S-(CH_2)_3-CF_2-CF_3$ 

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[[3-[(4,4,5,5,5,5pentafluoropentyl)thio]propyl]amino]pentyl]-, (11.beta.,17.beta.)- (9CI)

MF C31 H46 F5 N O2 S

Absolute stereochemistry.

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

MF C35 H46 F3 N O3 S

Absolute stereochemistry.

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

MF C38 H46 F3 N O3 S

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Pyrrolidine, 2-[[[4-(trifluoromethyl)phenyl]sulfinyl]methyl]-, (2S)- (9CI)

MF C12 H14 F3 N O S

Absolute stereochemistry.

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Ethanethioic acid, S-(4,4,5,5,5-pentafluoropentyl) ester (9CI)

MF C7 H9 F5 O S

Acs- (CH2)3-CF2-CF3

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Estra-1,3,5(10)-triene-3,17-diol, 11-[5-[methyl[3-[(4,4,5,5,5pentafluoropentyl)thio]propyl]amino]pentyl]-, (11.beta.,17.beta.)- (9CI)

MF C32 H48 F5 N O2 S

Absolute stereochemistry. Rotation (+).

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

Absolute stereochemistry. Rotation (+).

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
  IN Estra-1,3,5(10)-triene-3,17-diol, 11-[4-[2-[methyl[3-[[[4-(trifluoromethyl)phenyl]methyl]thio]propyl]amino]ethyl]phenyl]-, (11.beta.,17.beta.)- (9CI)
- MF C38 H46 F3 N O2 S

Absolute stereochemistry. Rotation (-).

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Benzene, 1-[[(3-bromopropyl)thio]methyl]-4-(trifluoromethyl)- (9CI)

MF C11 H12 Br F3 S

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L7 21 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Estra-1,3,5(10)-triene-3,17-diol, 11-[9-[(4,4,5,5,5-

pentafluoropentyl)sulfinyl]nonyl]-, (11.beta.,17.beta.)- (9CI)

MF C32 H47 F5 O3 S

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*